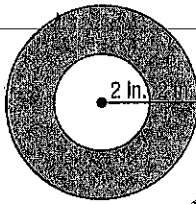


Find the area of each shaded region. Assume that all polygons are regular. Round to the nearest tenth.

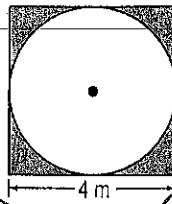
1.



$$16\pi - 4\pi$$

$$37.7 \text{ in}^2$$

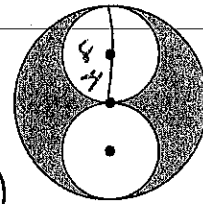
2.



$$16 - 4\pi$$

$$3.4 \text{ m}^2$$

3.

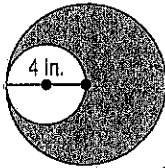


$$64\pi - 2(16\pi)$$

$$32\pi$$

$$100.5 \text{ m}^2$$

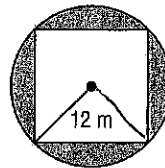
4.



$$16\pi - 4\pi$$

$$37.7 \text{ in}^2$$

5.



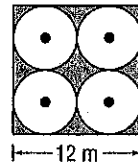
$$12\sqrt{2}$$

$$144\pi - (12\sqrt{2})^2$$

$$288$$

$$164.4 \text{ m}^2$$

6.

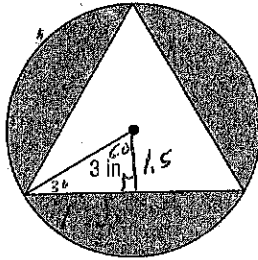


$$144 - 4(9\pi)$$

$$30.9 \text{ m}^2$$

Find the area of each shaded region. Assume that all polygons are regular. Round to the nearest tenth.

7.



$$A_c = 9\pi$$

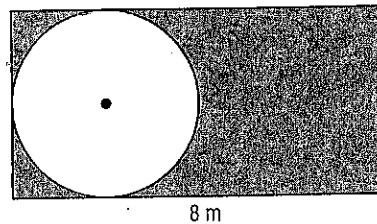
$$A_\Delta = \frac{1}{2} \cdot 1.5 \cdot 2.598$$

$$11.7$$

$$22.2$$

$$16.6 \text{ in}^2$$

8.

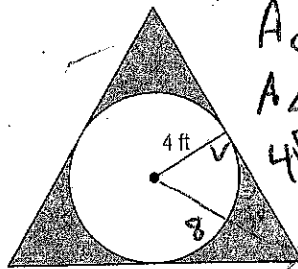


$$A_r = 32$$

$$A_c = 4\pi$$

$$19.4 \text{ m}^2$$

9.



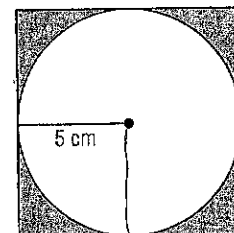
$$A_c = 16\pi$$

$$A_\Delta = \frac{(8\sqrt{3})^2 \sqrt{3}}{4}$$

$$48\sqrt{3}$$

$$32.9 \text{ ft}^2$$

10.



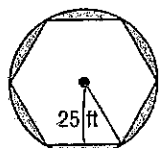
$$A_{sq} = 100$$

$$A_c = 25\pi$$

$$21.5 \text{ cm}^2$$

$$11. \quad 30 \quad 60 \quad 90$$

$$12.5\sqrt{3}$$



$$A_c = 625\pi$$

$$A_H = \frac{1}{2} \cdot 12.5\sqrt{3} \cdot 150$$

$$937.5\sqrt{3}$$

$$339.7 \text{ ft}^2$$